Circles Geometry Guided Practice Activity

Disclaimer: What you are about to read is completely fictional except for the parts that aren’t. Any reference to real people or teams dead or alive is coincidental and totally and utterly random. So basically, I just made up the names and stuff from my brain.

1. The little Red Deer chiefs had a finals play-off game in Sylvan Lake. Mrs. Kidd and Spencer went to the arena to watch the big game! During the warm up, Spencer went to get a snack and the team skated in Large Circles with a radius of 8 feet.
2. What is the size of the radius of the circle?
3. What was the size of the diameter?
4. What Circumference circle did they watch the players skate?
5. What is the area of the circle?
6. Brooke and Meagan went on a walk to Bower Ponds and they found baby frogs sitting on freakishly round lily pads! Brooke whipped out the ruler she keeps in her pocket and measured the diameter to be 8 cm.
7. What was the size of the radius of the lilypad?
8. What is the size of the diameter of the lilypad?
9. What is the circumference of the lily pad?
10. Teyan and Cam road on a certain horse that walked in big circles <http://www.youtube.com/watch?v=SQzW6wz2JQk&feature=related>

Click on the link above to learn more about this horse while you work on the question below…

When Teyan rode the horse it walked in a circle with a diameter of 35 feet. When Cam rode the horse it walked in a circle with a radius of 15 feet. On whose ride did the horse walk bigger circles?

1. Westley and Taylor went to the zoo to ride on the kiddie train. When asked why they would do such a thing, Taylor replied “We like trains!” and Westley replied, “I like how it goes in a circle”. While on the train the conductor gave the passengers a math quiz. He asked, “If the radius of a circle is doubled, will the diameter also be doubled? Show examples where this is true and false.
2. TJ and Eric think it would be kewl if they got to run in concentric circles with Mrs. Kidd. Because Kidd has never been kewl in her life she decides to take on the challenge. Draw a diagram of TJ, Eric and Kidd running concentric circles:
3. Nick and Abby told me after school yesterday that they love this song: <http://www.youtube.com/watch?v=zJv5qLsLYoo>

Click on the link above to listen to this pro song while you finish the question below.

Don’t dash away… let’s sing:

“You spin me right round baby right round, like a record baby…”

1. What if the record has a diameter of 25 cm!?! What would the radius be?
2. What would the area be?
3. What would the circumference of the record be?
4. At lunch, Nadia took off running down the hallway with Noah’s toaster strudel. Brandon tried to stop them as they passed the classroom door but they knocked him over and dashed into Mrs. Hadland’s room. Noah corned Nadia…but Nadia went crazy swinging the arm holding the toaster strudel in a perfect circle. What part of a circle did Nadia’s arm represent?
5. Jesse and Justin Morlock grew up watching Barney the purple dinosaur on tv when they were little. Barney was a busy dinosaur and not only did he have a job acting for kids on tv – he also went to school and the U of C. Barney made 9 friends when he was there. On his last day there, he asked his friends to form a circle for a group hug….so they did. Here is the video of their experience <http://www.youtube.com/watch?v=odzW6gvTShE>
6. If the 9 friends formed a hugging circle that had a diameter of 150 cm, what was the radius of the circle?
7. What is the circumference?
8. What is the area?
9. Quintin and Justin H think they are Saints! Quintin’s halo has a 15 inch diameter and Justin Howlett has a halo that has an 8 inch radius.
10. Whose halo is on crooked?
11. Who has the larger halo?
12. Brayden and Anson didn’t even react when Quintin and Justin walked into the room with their halos today. They just kept it kewl and pretended like they couldn’t even see them. But secretly, at their table they were plotting to steal them when Kidd wasn’t looking. When Kidd had her back turned to the class they both leapt out of their seats like baby frogs and surrounded them like a gang of crazy flamingos wanting hugs! It took the strength of a speeding train to rip the halos from above their heads, but they did it with the grace of a hockey player and made it back to their seats quieter than Noah chewing on a toaster strudel. The spun the halos around their finger to flaunt their victory. And then…they started on thinking deeply about the math that lay within those shiny rings…

Anson thought to himself while admiring Quintin’s halo…”how many radii could be drawn inside of a shiny halo like this?

Brayden looked deeply at Justin’s halo and wondered “how many diameters could be draw within this perfect halo?”

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| What are the answers to their musings? |  |  |  |  |
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| Circles Geometry Guided Practice Activity (ANSWER KEY)  Disclaimer: What you are about to read is completely fictional except for the parts that aren’t. Any reference to real people or teams dead or alive is coincidental and totally and utterly random. So basically, I just made up the names and stuff from my brain.   1. The little Red Deer chiefs had a finals play-off game in Sylvan Lake. Mrs. Kidd and Spencer went to the arena to watch the big game! During the warm up, Spencer went to get a snack and the team skated in Large Circles with a radius of 8 feet. 2. What is the size of the radius of the circle?   R=8 ft   1. What was the size of the diameter?   D=16 ft   1. What Circumference circle did they watch the players skate?   C = 50.2cm   1. What is the area of the circle?   A = 201.0 cm2   1. Brooke and Meagan went on a walk to Bower Ponds and they found baby frogs sitting on freakishly round lily pads! Brooke whipped out the ruler she keeps in her pocket and measured the diameter to be 8 cm. 2. What was the size of the radius of the lilypad?   R=4 cm   1. What is the size of the diameter of the lilypad?   D = 8 cm   1. What is the circumference of the lily pad?   C=25.1 cm   1. Teyan and Cam road on a certain horse that walked in big circles <http://www.youtube.com/watch?v=SQzW6wz2JQk&feature=related>   Click on the link above to learn more about this horse while you work on the question below…  When Teyan rode the horse it walked in a circle with a diameter of 35 feet. When Cam rode the horse it walked in a circle with a radius of 15 feet. On whose ride did the horse walk bigger circles?    Teyan D = 35 ft  Cam Diameter = 30 ft  Teyan has a bigger circle   1. Westley and Taylor went to the zoo to ride on the kiddie train. When asked why they would do such a thing, Taylor replied “We like trains!” and Westley replied, “I like how it goes in a circle”. While on the train the conductor gave the passengers a math quiz. He asked, “If the radius of a circle is doubled, will the diameter also be doubled? Show examples where this is true and false.   Circle 1 radius = 5 , D = 10  Circle 2 radius = 10, D = 20  Circle 3 radius = 20, D = 40  True   1. TJ and Eric think it would be kewl if they got to run in concentric circles with Mrs. Kidd. Because Kidd has never been kewl in her life she decides to take on the challenge. Draw a diagram of TJ, Eric and Kidd running concentric circles: 2. Nick and Abby told me after school yesterday that they love this song: <http://www.youtube.com/watch?v=zJv5qLsLYoo>   Click on the link above to listen to this pro song while you finish the question below.  Don’t dash away… let’s sing:  “You spin me right round baby right round, like a record baby…”   1. What if the record has a diameter of 25 cm!?! What would the radius be?   R = 12.5 cm   1. What would the area be?   A = 490.6 cm2   1. What would the circumference of the record be?   C = 78.5 cm   1. At lunch, Nadia took off running down the hallway with Noah’s toaster strudel. Brandon tried to stop them as they passed the classroom door but they knocked him over and dashed into Mrs. Hadland’s room. Noah corned Nadia…but Nadia went crazy swinging the arm holding the toaster strudel in a perfect circle. What part of a circle did Nadia’s arm represent?   radius   1. Jesse and Justin Morlock grew up watching Barney the purple dinosaur on tv when they were little. Barney was a busy dinosaur and not only did he have a job acting for kids on tv – he also went to school and the U of C. Barney made 9 friends when he was there. On his last day there, he asked his friends to form a circle for a group hug….so they did. Here is the video of their experience <http://www.youtube.com/watch?v=odzW6gvTShE> 2. If the 9 friends formed a hugging circle that had a diameter of 150 cm, what was the radius of the circle?   R = 75cm   1. What is the circumference?   C=471 cm   1. What is the area?   A = 17662.5 cm2   1. Quintin and Justin H think they are Saints! Quintin’s halo has a 15 inch diameter and Justin Howlett has a halo that has an 8 inch radius. 2. Whose halo is on crooked? 3. Who has the larger halo?   Justin because his diameter is 16 inches and quintin’s is only 15 inches   1. Brayden and Anson didn’t even react when Quintin and Justin walked into the room with their halos today. They just kept it kewl and pretended like they couldn’t even see them. But secretly, at their table they were plotting to steal them when Kidd wasn’t looking. When Kidd had her back turned to the class they both leapt out of their seats like baby frogs and surrounded them like a gang of crazy flamingos wanting hugs! It took the strength of a speeding train to rip the halos from above their heads, but they did it with the grace of a hockey player and made it back to their seats quieter than Noah chewing on a toaster strudel. The spun the halos around their finger to flaunt their victory. And then…they started on thinking deeply about the math that lay within those shiny rings…   Anson thought to himself while admiring Quintin’s halo…”how many radii could be drawn inside of a shiny halo like this?  Answer - infinite  Brayden looked deeply at Justin’s halo and wondered “how many diameters could be draw within this perfect halo?”  Answer - infinite   |  |  |  |  |  | | --- | --- | --- | --- | --- | | What are the answers to their musings? |  |  |  |  | |  |  |  |  |
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